



New Solar Homes Partnership (NSHP) Training Workshop

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Efficiency & Renewable Energy Division



Purpose

- Provide assistance to all parties participating in the NSHP program
 - Application Process
 - Required Documents
- Any comments or suggestions on improving the NSHP program can be sent to the California Energy Commission's Renewable Energy Office at renewable@energy.state.ca.us



California Solar Initiative

CPUC's
California Solar
Initiative

1,940 MW

\$2.16 B

**CEC's New
Solar Homes
Partnership**

400 MW

\$400 M

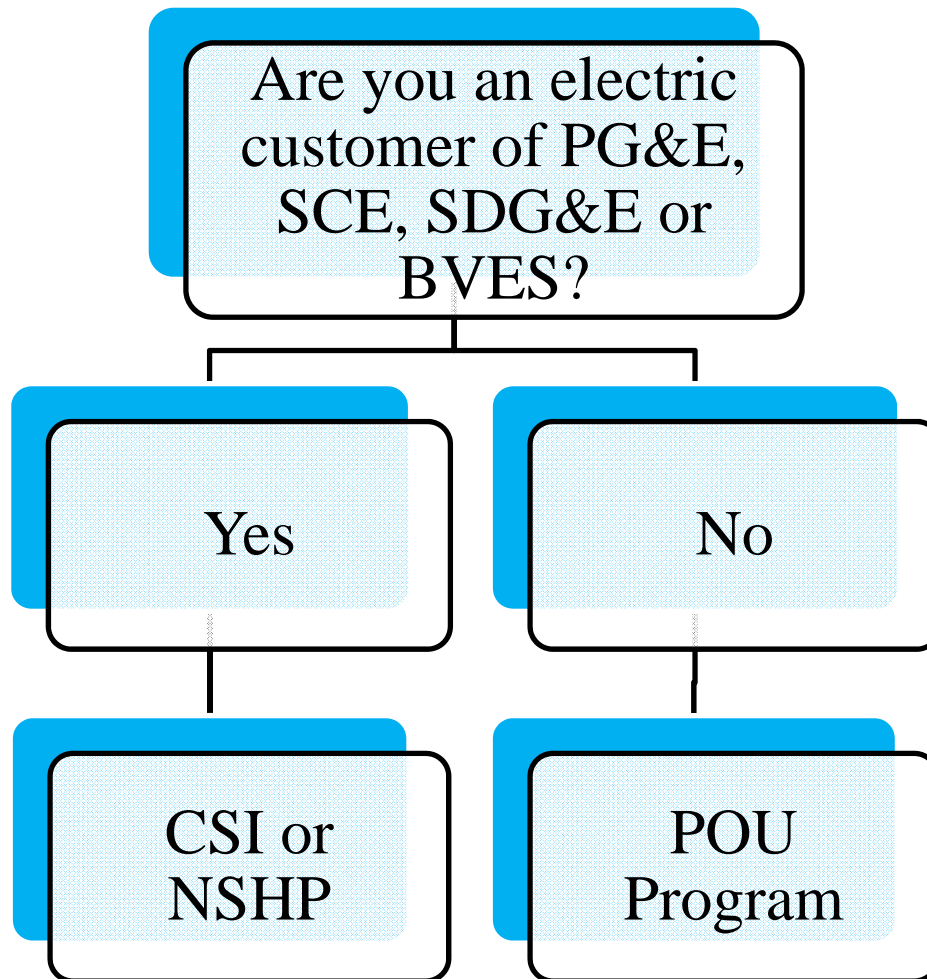
Publicly-Owned
Utility Solar
Programs

700 MW

\$784 M



Which Program Do I Apply To?





CSI or NSHP?

What kind of project will
the solar system be
installed on?

New Residential
Construction Projects

NSHP

Existing Homes, Existing and
New Commercial, Industrial,
Government, Non-Profit and
Agricultural Projects

CSI



New Solar Homes Partnership Program Goals

- Establish a self-sufficient solar industry where solar energy systems are a mainstream viable option for homes by 2016.
- Achieve 400 megawatts of installed solar electric capacity in California by the end of 2016.
- Place solar energy systems on 50% of new homes by end of program.



New Solar Homes Partnership Program Eligibility



Project Requirements

- Project located in one of four investor-owned electric service territories (PG&E, SCE, SDG&E, BVES).
- Solar energy system will be at least 1 kW AC or larger and interconnected with the utility grid.
- The electricity from the system will offset the end-use customer's electric load.
- The system will be composed of new certified components from the Energy Commission's Lists of Eligible Equipment and will be covered by a 10-year warranty.



Project Requirements Continued

- New residential construction
 - A residential building is considered “new” if the entire building structure is subject to current Title 24 Standards.
 - Solar permit should be pulled prior to the issuance of the certificate of occupancy, but no later than 180 days after.
- Systems and energy efficiency measures are third-party verified.



Energy Efficiency

- Project meets a minimum of 15 percent beyond current Building Energy Efficiency Standards (Title 24).
 - 2008 Building Energy Efficiency Standards
 - **Tier 1:** minimum 15 percent beyond Standard for combined space heating, cooling and water heating
 - **Tier 2:** minimum 30 percent beyond Standard for combined space heating, cooling and water heating and 30 percent for space cooling



Retailers and Installers

- Contractors installing solar systems must have a California State A, B, C-10 or C-46 license. Solar systems may also be self-installed.
- Retailers and installers must self-register with the Energy Commission via the Go Solar California website.



Project Types

Custom Homes

Solar as Standard

Small Developments

Projects/Phases of 6 or
more homes
AND

Solar on at least 50% of
those homes

Projects/Phases of less than 6
homes
AND/OR

Solar on less than 50%
of homes.



Project Types Continued

Solar as an Option

Unclear which homes will receive solar.

Incentives reserved for up to 50% of the homes.

System size assumed to be 2kW initially.

Project status update required 18 months into the reservation.

Common Areas

Areas in the development that are reserved for the use of the residents.

Example: Recreation Center, Pool House, etc.

Affordable Housing

At least 20% of the project units must be reserved for extremely low, very low, lower, or moderate income households for a period of at least 10 years.

Occupancy permits less than two years old.

Virtual Net Metering is allowed.



Incentive Structure

- One-time, upfront incentive
- Incentives decline as megawatt targets are achieved
- Incentives decline to zero at the end of the program
- <https://www.newsolarhomes.org/RebateLevels.aspx>



Expected Performance-Based Incentive

- The incentive amount is calculated using the CEC-PV Calculator
- The incentive amount is based on a calculation which compares the expected performance of the proposed system to a reference system



Incentive Levels

“Solar as Standard” Incentive

\$2.60/Watt

36 Month Reservation Period

Projects with six or more units where solar is installed on 50 percent or more of the units.

Base Incentive

\$2.50/Watt

18 Month Reservation Period

Custom homes
Small developments
Developments offering solar as an option*
Developments where solar is installed on less than 50 percent of the units
Common areas

Affordable Housing Incentive

\$3.50/Watt : Residential Units

\$3.30/Watt : Common Areas

36 Month Reservation Period

Incentives decline over time as affordable housing megawatt targets are achieved.
Separate decline schedule, but no specific set-aside of funding for affordable housing.

*Solar as an Option projects will receive a 36-month reservation period.



Additional Program Details

Leased Systems

At a minimum, ten-year leased systems and power purchase agreements

Lessor is required to report the status of the system for the first five years.

If agreement is terminated AND system is removed within the first five years, then penalties for early removal

Incentive Cap

Incentives are for the first 7.5 kW AC of a system installed on a residential dwelling unit.

California Flexible Installation Criteria (CFI)

Include flat installations in tilt range (0 degrees)

CFI can only be used for new residential developments.

CECPV Calculator
Version 2.4

System Upgrades

If the installed system is larger than the one that was proposed at reservation time, the incremental increase in system size is calculated at the incentive level in effect at the time of reservation approval.



NSHP Resources

www.gosolarcalifornia.org

Go Solar California - Windows Internet Explorer

http://www.gosolarcalifornia.org/

File Edit View Favorites Tools Help

Go Solar California

Go solar CALIFORNIA

most popular

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COMMUNITY SOLAR CALENDAR

CALCULATE YOUR SAVINGS

GETTING STARTED

Welcome!

Welcome to the NEW Go Solar California website. We've updated our website to make it easier to find information about solarizing your home or business. Thanks for visiting!

California Leads the Nation

62,257	solar projects
615	megawatts installed
\$9.21	avg cost/watt <10kW
\$7.66	avg cost/watt >10kW

last updated: 6.24.10
[More Stats](#)

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Additional NSHP Resources

<http://www.gosolarcalifornia.org/nshp/training/>

New Solar Homes Partnership Training and Classes - Windows Internet Explorer

http://www.gosolarcalifornia.ca.gov/nshp/training/

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New Solar Homes Partnership Training and Classes

GO solar CALIFORNIA

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Home > nshp > training >

New Solar Homes Partnership Training & Classes Training Events

July 22, 2010
[New Solar Homes Partnership Training Workshop - Sacramento](#)

WebEx instructions are now available through the workshop link above.

WebEx Tutorial Training Files

The New Solar Homes Partnership provides online training through WebEx tutorials. These tutorials were created as an additional training aid for the NSHP Web Tool application process. Please refer to the NSHP Guidebook and NSHP Help Manual for additional detailed information.

Please note: No software is needed; The WebEx player is automatically installed when you click the link to begin playback. Problems with playback? Please contact WebEx technical support at 1 866-229-3239.

Date	Title	Duration
10/23/08	Introduction to the Web Tool	00:42
10/24/08	Getting Started	02:52
10/23/08	Adding a Project and Associate	03:55
10/27/08	Adding Attachments	01:08
10/24/08	Project Progress	01:28
10/24/08	Support Services	00:36

TRAINING EVENTS PRESENTATIONS



Additional NSHP Resources

<http://www.cabec.org/>

Welcome to CABEC - Windows Internet Explorer

http://www.cabec.org/

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Welcome to CABEC

CABEC California Association of Building Energy Consultants

About CABEC Find An Energy Consultant

MAIN MENU

- Home
- CABEC Vendor Members

Welcome to CABEC

Mission Statement

The purpose of CABEC is to further technical expertise and ethics through certification; to foster professional development through training, information, and peer exchange/networking; to represent and enhance the stature of its members to the California Energy Commission and other political entities; and to encourage energy efficiency and regulatory compliance throughout the energy consulting industry.

Last Updated on Sunday, 13 June 2010 21:35

CABEC Web Site Changes


As you can see, the look of the CABEC web site has changed. We are hoping that the improvements we are making will make it easier for you to navigate to the information most pertinent to your needs. At this time we have not yet posted all the links and/or pages from the previous version of the web site. Those links and pages, however, will be coming online the moment the updates have been finalized. Currently in place is the ability to find an energy consultant (CEA and CEPE).

We apologize for the inconvenience and thank you for your patience.

Last Updated on Thursday, 17 June 2010 15:33

CABEC VENDOR MEMBERS

Click image to follow link



[Vendors Overview Page](#)

NEWSFLASH

The CEPE certification training and testing schedule for fall 2010 is now available. Seats are limited so please sign up early.

RSS GSS HTML



Additional NSHP Resources

<https://www.calcerts.com/>

CalCERTS - Home - Windows Internet Explorer

https://www.calcerts.com/

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CalCERTS - Home

CalCERTS, Inc.
Home Energy Rating Systems - HERS
California's Premier Home Energy Rating Provider

Welcome to CalCERTS

If you are a Current/Returning CalCERTS HERS rater, user or business associate and already have a login and password then proceed to login (to the right top of screen).

If you are New to CalCERTS and are seeking further information, please be sure to read [About Us](#), to get an overview of our expertise and services. Get all of the latest information you need by following the links below.

Access to our online registry data base is restricted to CalCERTS raters, users and other business affiliates.

Please [contact us via email](#) regarding questions or comments about the website.

Current Raters & Users Log in Here:

Login

Password

Login

Forgot Login or Password?
[Click Here](#)

newsworthy

New for 2010
Energy Consultants can register themselves and their CF-1R for Compliance with CalCERTS!

[Field Testing]

CalCERTS, Inc is approved for 2008 Building Energy Standards

CEC 2008 Standards Forms

[CalRatePRO]

HERS Rater Information

- HERS Rater Login - Already Certified
- HERS Support - Current User
- HERS Rater - How to Get Certified?
- HERS Rater - How to Locate One?

Solar Information

- Solar Rater Login - Already Certified
- Solar Support - Current User
- Solar Rater - How to Get Certified?
- Solar Rater - How to Locate One?

Homeowner/Consumer Information

- Locate a Certified HERS Rater
- Homeowner/Consumer Information

Builders/HVAC Contractors Information

- Locate a Certified HERS Rater
- Builders/HVAC Contractors Information

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Office: 916-985-3400, Toll Free: 877-HERS-R8R, (877-437-7787)



Additional NSHP Resources

<http://www.cheers.org/>

Overview - Windows Internet Explorer

http://www.cheers.org/

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Overview

CHEERS
California Home Energy Efficiency Rating Services

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- ▶ [Own or buying an older home?](#)
- ▶ [Need to have HVAC work done?](#)

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- ▶ [Are you a Builder?](#)
- ▶ [Are you an HVAC Contractor?](#)
- ▶ [Are you with a Building Department?](#)
- ▶ [Are you in the Energy Business?](#)

CHEERS® for Raters

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- ▶ [Become a Rater](#)
- ▶ [CHEERS Rater Support](#)
- ▶ [Event Calendar](#)
- ▶ [Go to the Registry \(2005 Standards\)](#)
- ▶ [Go to registering CF-1R's](#)
- ▶ [Download Software](#)

NEW for 2010 !!!

Energy Consultants can now use this web site to register CF-1R documents into the CHEERS Document Registry.

[Click here](#)

Project Owner document signing. Required to have CEC energy forms registered for your projects.

[Click here](#)

Building Department document registration verification.

[Click here](#)

Find a CHEERS® Certified Rater.

Want to be a CHEERS®



Additional NSHP Resources

- NSHP CECPV Calculator
 - <http://www.gosolarcalifornia.org/tools/nshpcalculator/index.php>
- NSHP Web Tool
 - <https://www.newsolarhomes.org>
- Register for the GoSolar Retailer/Installer List
 - <http://www.gosolarcalifornia.org/installers/installer.php>
- Check the Eligible Equipment Lists
 - http://www.gosolarcalifornia.org/equipment/pv_modules.php
 - <http://www.gosolarcalifornia.org/equipment/inverters.php>



FAQ's

- What's the current incentive level?
 - <https://www.newsolarhomes.org/RebateLevels.aspx>
- How many MW's have been reserved/are under review?
- How will I know when the incentive level will drop?
- Where should I send my reservation package and payment claim package?
 - <http://www.gosolarcalifornia.org/contacts/consumers.php>



FAQ's

- What if my reservation has expired?
- How does a retailer get added to the online registered retailer list?
 - <http://www.gosolarcalifornia.org/installers/installer.php>
- When will the next training be held?
 - <http://www.gosolarcalifornia.org/nshp/training/>
- Other questions?



Contact Information

- <http://www.gosolarcalifornia.org/contacts/consumers.php>
- PG&E
 - solar@pge.com
 - 1-877-743-4112
- SCE
 - NSHP@sce.com
 - 1-866-584-7436
- SDG&E
 - newsolarhomes@sdge.com
 - 1-866-631-1744